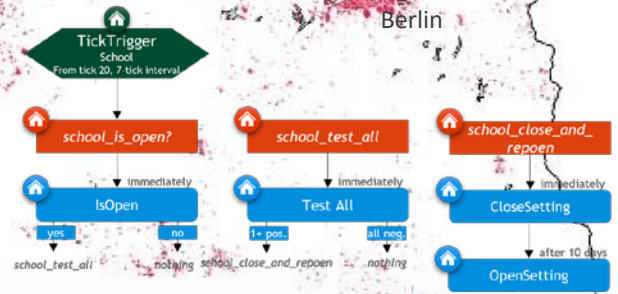
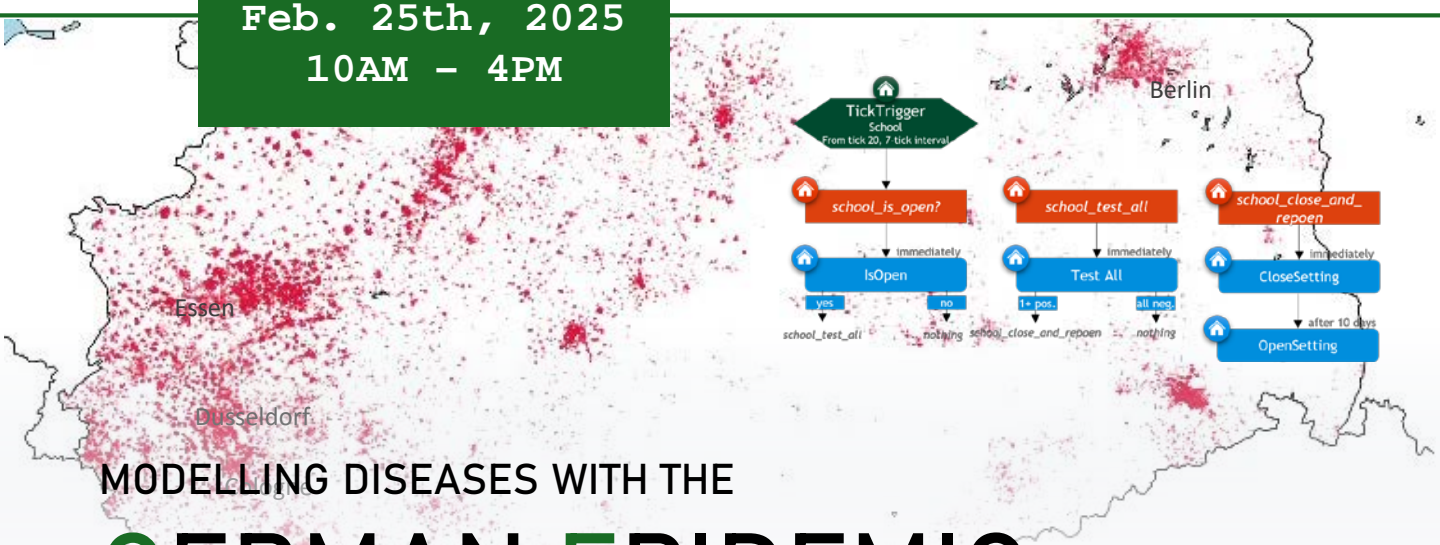




PRE-CONFERENCE WORKSHOP

Feb. 25th, 2025
10AM - 4PM



MODELLING DISEASES WITH THE **GERMAN EPIDEMIC MICROSIMULATION SYSTEM**

OVERVIEW

GEMS is the main outcome of the OptimAgent project and now in the final year of its development. It is a high-performance, yet light-weight and easy-to-use agent-based simulation framework to model respiratory infectious diseases on a full model of the German population. It allows to model complex intervention strategies (vaccination, isolation, testing, contact-tracing, school-closure, and many others) with a couple lines of code and provides rich output analysis and visualization features. The workshop will use smaller regional- and synthetic population models (so you can use a laptop!).

PREREQUISITES

Please bring a laptop computer with *Visual Studio Code* (<https://code.visualstudio.com/>) and *The Julia Programming Language* (Version 1.10.4 and up) (<https://julialang.org/>) installed.

WORKSHOP CONTENTS

- Running simulation experiments with GEMS
- Visual exploration of simulation results
- Importing and exporting data
- Modeling NPIs scenarios and comparing intervention strategy outcomes
- Assistance if you want to try out your own ideas!

REGISTER & VENUE

Enrolment is possible as part of the 3rd MONID Conference registration process.

Venue: Training Center "Veterinarium Progressum" Oertzenweg 19b, 14163 Berlin (Düppel)

The workshop will be on site (limited capacity, MONID members will be given priority).